

Refractory Additively Manufactured Affordable Launch Vehicle RCS, Phase I

Completed Technology Project (2018 - 2019)

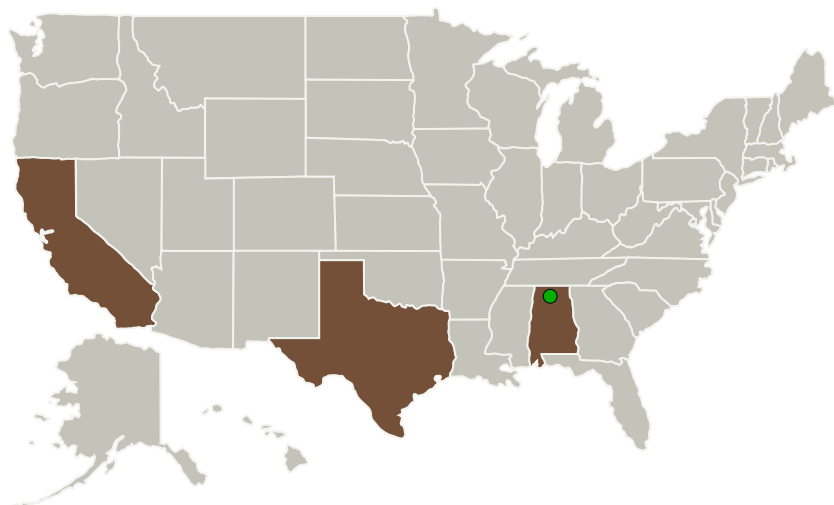


Next generation kinetic energy Kill Vehicles for the Missile Defense Agency and Navy

Future USAF Ground Based Strategic Deterrent (GBSD) Post Boost Propulsion and booster Roll Control System applications

Hypersonic steering for U.S. Army and DARPA

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Valley Tech Systems, Inc.	Lead Organization	Industry	Folsom, California
● Marshall Space Flight Center(MSFC)	Supporting Organization	NASA Center	Huntsville, Alabama
The University of Texas at El Paso	Supporting Organization	Academia Hispanic Serving Institutions (HSI)	El Paso, Texas

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Valley Tech Systems, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

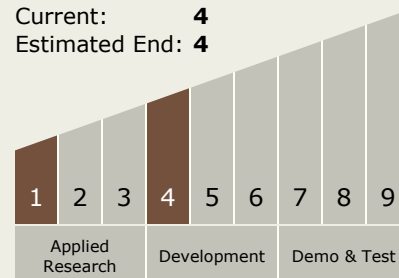
Carlos Torrez

Principal Investigator:

Christopher Smith

Technology Maturity (TRL)

Start: **1**
Current: **4**
Estimated End: **4**



Refractory Additively Manufactured Affordable Launch Vehicle RCS, Phase I

Completed Technology Project (2018 - 2019)



Primary U.S. Work Locations

Alabama

California

Texas

Project Transitions

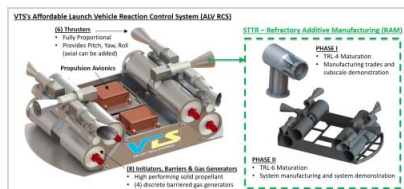
July 2018: Project Start

August 2019: Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/137894>)

Images



Briefing Chart Image

Refractory Additively Manufactured Affordable Launch Vehicle RCS, Phase I
(<https://techport.nasa.gov/image/131463>)



Final Summary Chart Image

Refractory Additively Manufactured Affordable Launch Vehicle RCS, Phase I
(<https://techport.nasa.gov/image/133256>)

Technology Areas

Primary:

- TX01 Propulsion Systems
 - TX01.1 Chemical Space Propulsion
 - TX01.1.1 Integrated Systems and Ancillary Technologies

Target Destination

Earth